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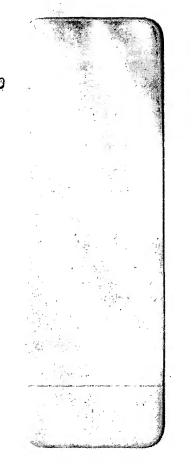
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
. 09/811,295	03/16/2001	Kenneth Rose	M-8372 US	7270	
7	590 11/26/2004	EXAM	EXAMINER		
	MORRILL MACPHE	KHUONG, LEE T			
25 METRO DRIVE SUITE 700			ART UNIT	PAPER NUMBER	
SAN JOSE, CA 95110			2665		
			DATE MAILED: 11/26/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
,	09/811,295	ROSE, KENNETH			
Office Action Summary	Examiner	Art Unit			
_	Lee Khuong	2665			
The MAILING DATE of this communication app					
Period for Reply		·			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of the NO period for reply specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 5/22/	<u>01</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final				
3) Since this application is in condition for allowar	ce except for formal matters, pro	secution as to the merits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdray	n from consideration				
5) Claim(s) <u>1-15</u> is/are allowed.	m nom consideration.				
6)⊠. Claim(s) <u>16-21</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.	•			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
	1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
See the attached detailed Office action for a list (or the certified copies not receive	a. ·			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal Pa	ite atent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:				
S Patent and Trademark Office					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 16-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Civanlar et al (US 6,078,963) hereinafter referred as Civanlar.

Regarding claim 16, Civanlar discloses an apparatus of A Router With De-Centralized Processing Using Intelligent Ports. In Civanlar, a routing engine 107, Fig. 1, generates a routing data and transmits a data packet from a source port to a destination port within a switching fabric using the updated routing information comprises:

a buffer (a 1st level cache 209, Fig. 2) configured to receive a data frame (a packet is received at a source port 103A, Fig. 1) to be transmitted to a destination device (to the destination port 103D, Fig. 1) via a first switching fabric (a switching fabric 112, Fig. 2, col. 5, lines 1-13, a packet is received at a source port 103A, which then is stored at a buffer 209. The packet is then forwarded to the switching fabric 112 to be transmitted to a destination device via an output port 103D, Fig. 1),

wherein the first switching fabric comprises data ports (the switching fabric 112, Fig. 1, comprises the data ports 103A-D, Fig. 1) through which data frames enter or exit the first

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switching fabric (see col. 3, lines 60-62, a packet enters at the source port 103A, col. 5, line 2, and exits at the destination port 103D), and

a routing data generation circuit (a routing engine 107, Fig. 1, a routing process 204, Fig. 2) coupled to the buffer (the 1st level cache 209, Fig. 2) (see col. 4, lines 43-44, the routing processor 204 is interconnected with the buffer 209 via a high-speed bus 205),

wherein the routing data generation circuit (the routing engine 107) is configured to generate and add routing data to the data frame received by the buffer (see Fig. 3, steps 310 and 315, col. 3, lines 28-41, the routing engine 107 generates and updates the routing data contained in routing protocol packets that was received from a network router port 103 and stored in its buffer 209),

wherein the routing data identifies one of the data ports of the first switching fabric through which the data frame will exit to reach the destination device (see col. 8, lines 19-28, the routing data identifies the best egress router port 103, Fig. 1 to reach the destination device via the network interface 110);

wherein the buffer is configured to transmit the received data frame to the switching system after the routing data generation circuit adds the routing data to the data frame (see col. 8, lines 8-11, the switching fabric 112, Fig. 1, comprises ingress data ports and egress data ports. The packet is routed from the 1st level cache 209, Fig. 2, and the routing generated data is inherently added to the packet before transmission).

Civanlar does not disclose expressly a 2nd switching fabric with data ports such that data received from the buffer could be enter and exit from the 2nd switching via its data ports.

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Karol discloses a Technique For Internetworking Traffic On Connectionless and Connection-Oriented Networks. In Karol, the CO Switch 410, Fig. 4, is considered as a second switch (see col. 6, lines 35-38) with data ports such that data received (a packet enters at data ports in an input line card 401, Fig. 4) from the buffer (the 1st level cache 209, Fig. 2 of Civanlar) could be enter and exit (a packet exits at data ports in an output line card 402, Fig. 4 from the 1st level cache 209, Fig. 2 of Civanlar, col. 4, lines 36-67)

Civanlar and Karol are analogous art because they are from a similar problem solving area of determining routing data in a switching fabric(es).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the switching fabric of Civanlar with Karol.

The suggestion/motivation for doing so would have been to provide an efficiency of routing through multiple switching fabrics (Karol col. 4, lines 36-67) such that if a routing path via a 1st switching fabric is congested, an alternative path in a second switching fabric is used instead.

Therefore, it would have been obvious to combine Karol with Civanlar to obtain the invention as specified in claim 16.

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Regarding claim 17, please see the rejection of claim 16. The 2nd switch of Karol is to be

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implemented in Civanlar such that the data received from the cache 209 of Civanlar is to enter

the 1st port 103A of 1st switch of Civanlar and exits a port on the output line card on the 2nd

switch of Karol.

Regarding claim 18, this claim has similar limitations as claim 16. Therefore, it is

rejected under Civanlar and Karol for the same reasons set forth in the rejection of claim 16.

Regarding claim 19, this claim has similar limitations as claim 17. Therefore, it is

rejected under Karol for the same reasons set forth in the rejection of claim 17.

Regarding claim 20, this claim has similar limitations as claim 16. Therefore, it is

rejected under Civanlar and Karol for the same reasons set forth in the rejection of claim 16.

Regarding claim 21, this claim has similar limitations as claim 16. Therefore, it is

rejected under Karol for the same reasons set forth in the rejection of claim 16.

Allowable Subject Matter

3. Claims 1-15 are allowed.

Reason for Allowance

4. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1-15, the prior art fails to teach or suggest a method comprising two switching fabrics that comprises the steps of concatenating the second multi-bit value with itself to produce a concatenated second multi-bit value and bit wise logically ANDing the selected first multi-bit value with the concatenated second multi-bit value to produce a third multi-bit value, wherein the third multi-bit comprises concatenated first and second portions, in combination with other limitations, as specified in the independent claims 1 and 9.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Blanc et al (US 6,597,656); Sethu (US 5,812,549) are cited to show system and method for providing Hardware Load Balancing Through Multiple Fabrics, which is considered pertinent to the claimed invention.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lee Khuong whose telephone number is 571-272-3157. The examiner can normally be reached on 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Lee T. Khuong Examiner

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DUCHO PRIMARY EXAMINER

Suchtto 11-22-04

Notice of References Cited Application/Control No. 09/811,295 Examiner Lee Khuong Applicant(s)/Patent Under Reexamination ROSE, KENNETH Page 1 of 1 U.S. PATENT DOCUMENTS

Document Number Date			Date	r -	
*		Country Code-Number-Kind Code	MM-YYYY	Name	Classification
	Α	US-6,078,963	06-2000	Civanlar et al.	709/238
	В	US-6,628,617	09-2003	Karol et al.	370/237
	С	US-6,597,656	07-2003	Blanc et al.	370/219
	D	US-5,812,549	09-1998	Sethu, Harish	370/389
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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NON-PATENT DOCUMENTS

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A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.